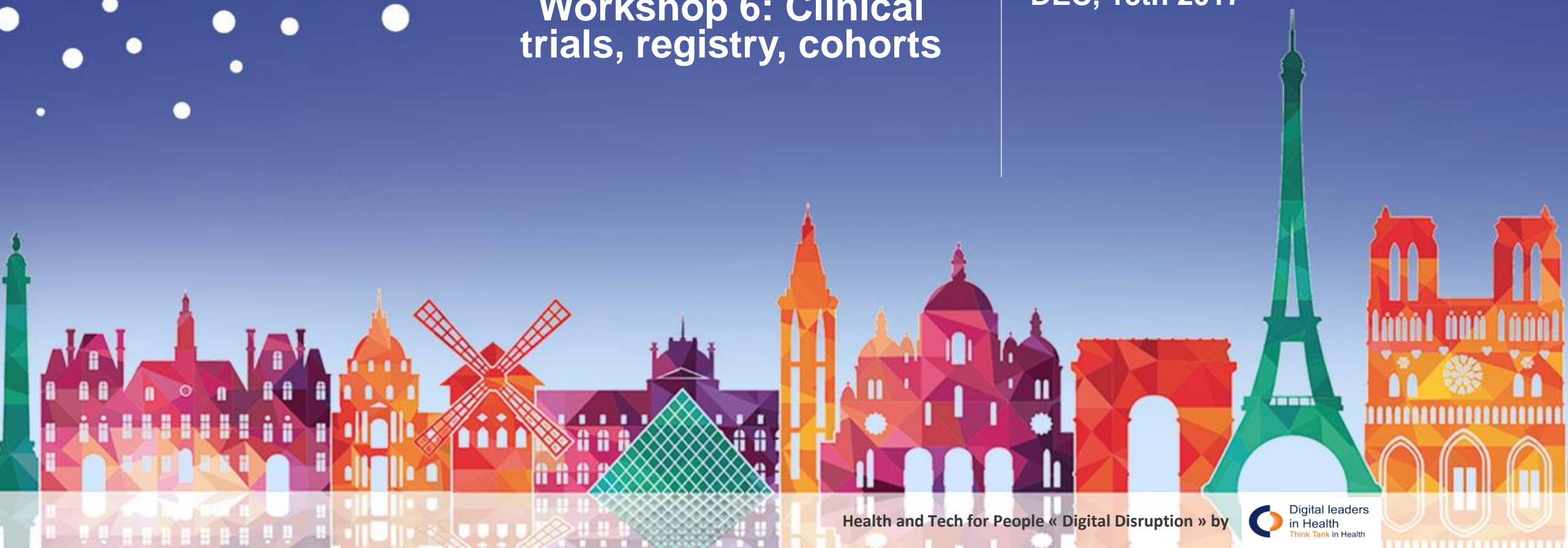


Workshop 6: Clinical trials, registry, cohorts

PARIS
DEC, 13th 2017



Workshop 6: Clinical trials, registry, cohorts

(Room Stephenson)



Moderator:
Jean-Pierre Thierry
France Asso Santé (FR)
[@FAS_National](#)



Denis Lacombe
Director General, EORTC
(B)
[@EORTC](#)



Raphaël Beaufret
Director of Web Innovation
Data department,
Greater Paris University
Hospitals (FR)



Carine Milcent
Ph.D Supervisor and
CNRS Researcher,
French National
Centre for Scientific
Research (FR)
[@carine_milcent](#)

Organised by



PARIS
DEC, 13th 2017

Prof. Carine Milcent
CNRS and PSE

Digital health in China

Between evolution and revolution



- **Context: global changes**

- Body Mass Index (BMI): from malnutrition issue to obesity issue
- Labour market: from agricultural workers to services
- Demographic changes and Economic changes
 - From low-income population with high birth and death rates
 - To older population with a low birth rate and higher income
- Inequality: gaps between subgroups of population



Digital health in China

Between evolution and revolution



- **The Chinese healthcare system faces many issues**
 - The confrontational relationship between doctors and patients
 - the poor access for populations in rural areas
 - the significant mark-up throughout distribution channels
 - a financially heavy burden for chronic diseases
 - poor quality of healthcare supply and inefficient hospital operation
 - except Level 3 hospitals that have to deal with an over-demand



Digital health in China

Between evolution and revolution



- **Many solutions have been proposed**
 - the multiplication of healthcare suppliers
 - the establishment of general practitioners as gatekeepers for hospital admissions
 - the implementation of public health insurance schemes
 - the government supporting for reforms in favour of
 - private health insurance
 - private healthcare providers
 - However, they have not proven sufficient to solve all problems yet



Digital health in China

Between evolution and revolution



- **Digital healthcare is likely to play an increasing part in addressing these issues**
- One of the strengths of e-health is the quick and widespread adoption of mobile platforms
- Help solve access challenges, through
 - online appointment registration systems
 - models of online-offline services
 - two-communication platforms between patients and physicians
 - sharing information through the Electronic Health Record (EHR)
 - sharing information through the Electronic Medical Record (EMR) systems
 - leading to the generalized implementation of a DRG-based payment system
 - making patients more increasingly active actors in maintaining the health status
 - Apps
- the online drug market



Digital health in China

Between evolution and revolution



- **Electronic Medical record**

- Information on the in-patient stays
- Data collected from the hospital
 - Age, sex, length of stay, acts, diagnosis,...
 - With procedure and template set up by the hospital or the network of facilities
 - Management of the data: can be delegated to an external firm
 - Because hospital maximize profit, raise question of the data confidentiality
- Some pilot programmes of DRG based system but for a part of the healthcare



Digital health in China

Between evolution and revolution



- **DRG payment system**

- 2 viable DRG systems: including the Beijing-DRG (2011) and the C-DRG system by the National Health and Family Planning Commission (2017)
- better operations, IT systems, standardized coding, a better shared information system



Digital health in China

Between evolution and revolution



- **Electronic Health Record (EHR)**

- Medical health history and medical healthcare history
- At the individual level
- EHR enables physicians to record, manage and share health information at patient level in a very convenient way, by photo and audio
- Assume to follow the individual over time
- Government officials hope to implement EHRs in at least half of urban clinics and rural hospitals by 2020



Digital health in China

Between evolution and revolution



● Drug Medication Record

- Since 2010, China's pharmaceutical market has been the world's second largest
- A study by the Alliance for Safe Online Pharmacies (ASOP)¹⁵ and a LegitScript review¹⁶ shows that 93% of China's online pharmacy market is operated illegally
- To improve the situation, the Chinese government has engaged in efforts to crack down on online illegal drug sellers since 2005
- In 2005, use of an electronic quality control system named Product Identification Authentication and Tracking System, or PIATS
- PIATS is today outsourced by CFDA to Ali Health, the health division of Alibaba
- ...



Digital health in China

Between evolution and revolution



- **Digital healthcare, On the flip side.....**
 - This raises many concerns regarding
 - the confidentiality of personal medical data
 - the monopoly of some internet companies
 - Decentralized healthcare system in China
 - For the private providers
 - Get health and healthcare information
 - at the individual level
 - on patient health history



Carine Milcent
cmilcent@gmail.com

PARIS
DEC, 13th 2017

Book forthcoming:

HEALTHCARE REFORM IN CHINA: From violence to digital healthcare

Authors: Carine Milcent

Ed: Palgrave Pivot, published by Springer Nature